



Launch Mission Execution Forecast

Mission: Atlas V CST-100 OFT-2

Issued: 31 Jul 2021 / 0900L (1300Z)

Valid: 3 Aug 2021 / 1310 – 1330L (1710 – 1730Z)



Forecast Discussion: *No change to the forecast reasoning.* An extended period of southwest steering flow is expected over the next week, which typically favors the eastern half of the peninsula for afternoon showers and thunderstorms. While coverage is forecast to be a bit less this weekend, precipitation chances are expected to increase again next week as a mid- and upper-level trough develops over the eastern U.S. Given the pattern on Tuesday, the greatest coverage of convection is expected to hold off until after the launch window. Still, a weather-related violation is possible due to isolated showers and thunderstorms in the area, particularly towards the end of the count. The primary concerns at this time are the Cumulus Cloud, Surface Electric Fields, and Lightning Rules.

Launch Day	Probability of Violating Weather Constraints									
	40%		Primary Concerns: Cumulus Cloud Rule, Surface Electric Fields Rule, Lightning Rule							
	Weather Conditions						Additional Risk Criteria			
	Weather/Visibility:		Isolated Storms / 7 mi.		Clouds		Solar Activity: Low			
	Temp/Humidity:		86°F / 70%		Type	Coverage			Base (ft)	Tops (ft)
	Ground Winds (230'):		210° 12 - 16 knots		Cumulonimbus	Scattered			3,000	25,000
				Cirrus	Broken	24,000	30,000			
Note: The Probability of Violation (POV) is the chance that a Lightning Launch Commit Criteria (LLCC) or certain user constraints (surface winds, precipitation, and temperatures, etc.) will be violated during the launch window. It does not take into account upper-level wind shear and solar activity.										
Next Forecast Will Be Issued			1 Aug 2021							